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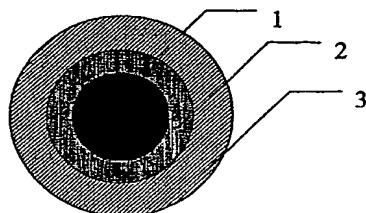
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(54) Title: FLUORESCENT MAGNETIC NANOPARTICLES AND PROCESS OF PREPARATION



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(57) Abstract: This invention provides nanometer-sized fluorescent magnetic particles and processes of making them. The nanoparticle has a core particle comprising a magnetic material and a fluorescent material, and the particle size is less than about 1 micrometer. The nanoparticles can be coated with an inorganic or organic layer and can be surface-modified. The nanoparticles can be used in many biological assays.